

1 to the laboratory for the intent of performing an
2 angioplasty with one of these balloons.

3 So I think our stance so far has been that
4 we are going to keep all of the risks attendant to the
5 entire procedure in the list here.

6 DR. HARTZ: I think, if we go there,
7 there's a lot more things we would have to talk about,
8 because there is just a myriad of other complications
9 that really are just inherent to taking a patient to
10 the laboratory to do coronary angiography.

11 For example, are they or are they not
12 going to have a left ventriculogram. So I think
13 contrast and anti-coagulation really -- maybe not so
14 much anti-coagulation because of the new anti-platelet
15 agents, but certainly contrast is part and parcel of
16 the patient going for the angiogram.

17 The contrast in this procedure is
18 contained within the balloon.

19 DR. LASKEY: Prior to advent of coronary
20 angioplasty, every single risk in Section 2 applied as
21 well, with the exception of balloon rupture, guide
22 wire fracture, and one other here. Every single risk

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1 was cited to the patients who were undergoing coronary
2 angiography, but I'm not sure what that proves. It's
3 inherent in instrumenting the coronary arteries.

4 DR. KRUCOFF: Yes. Renee, there are
5 unique risks, too, for an angioplasty. You may extend
6 the volume of contrast considerably. It may risk more
7 of the osmotic complications or the renal
8 complications in order to do so.

9 So I think the notion of keeping all the
10 procedure lumped together in spirit is something I
11 would support, and contrast would be included in that.

12 ACTING CHAIRPERSON TRACY: I think we have
13 looked at -- If we look through this list, are there
14 any other obvious big potentials that we are missing
15 here?

16 DR. CRITTENDEN: Dislodging a stent that
17 was previously placed?

18 ACTING CHAIRPERSON TRACY: That was a
19 point I wanted to raise as a question. Do we want to
20 add some language here about interaction with stents,
21 potential interaction with stents?

22 DR. KRUCOFF: How about just adding that

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1 to embolization or fragmentation of thrombotic or
2 atherosclerotic or stent material, because that is
3 ultimately what you are going to be doing if you
4 dislodge it. You just sort of add it to that feature.

5 ACTING CHAIRPERSON TRACY: Okay.

6 DR. HARTZ: In view of your reference
7 concerning exceeding contrast volume, we have to add
8 renal failure, because it's specific from allergic
9 reaction.

10 MR. DILLARD: Dr. Tracy, can I just add a
11 point, too? I think, to the point about stent
12 situation and whether or not we actually go in and we
13 balloon where we already have a stent, one of the
14 other questions, I think, that will help perhaps in
15 the risks also is when you get to the point of the
16 supplement data sheet where we are going to ask you
17 for your recommendations on the indications for use
18 prescribed, recommended or suggested in the devices
19 labeling.

20 One of the other points that certainly
21 came up was there appears to be three indications that
22 the manufacturer potentially is after, and there was

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1 some discussion on the part of the panel about whether
2 or not there is actually enough data for some of those
3 indications.

4 So I think that is part of what needs to
5 be factored in, because that will have an impact also
6 on the last point about the stent, potentially. Does
7 that make any sense?

8 ACTING CHAIRPERSON TRACY: Yes. I would
9 sort of favor at this point moving on, because we
10 could just keep thinking up potential complications
11 that -- you know, it could go on forever.

12 So if everybody is in agreement, we will
13 move on to question number 3: "Have appropriate
14 special controls been identified to adequately address
15 the risks to health specific to PTCA catheters? If
16 not, what additional special controls are necessary to
17 reclassify PTCA catheters?"

18 The proposed special controls cited were
19 guidance document and device labeling, and there has
20 been many, many references to the fact that we think
21 that the guidance document needs some updating. I
22 think that is probably fair to say, too, for the

1 device labeling, and we have made comments throughout
2 the proceedings as to specifics on that.

3 Any other comments on that?

4 DR. LI: I guess -- I completely agree
5 with that. I just want to maybe emphasize the point
6 that updating, in my case, I would prefer to see for
7 each one of these tests a specific protocol, because
8 it seems like right now there's kind of a -- for those
9 that have devices, they kind of know what to expect;
10 but if you are new to the area or something else
11 changes, it's unclear exactly if everybody gets the
12 same playing field.

13 DR. CRITTENDEN; Is it reasonable to
14 standardize in vitro testing? Is that kind of what
15 you are saying?

16 DR. LI: Well, maybe standardize is a
17 little strong, but at least I think there ought to be
18 a basic set of exact tests, number of specimens, how
19 it's loaded, all the engineering tests you would need
20 to do to ensure that everybody knows exactly what it
21 is they are supposed to do without having to quibble
22 and negotiate over it.

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1 Then the last addition was the only thing
2 I would like to see added to this -- and I guess Dr.
3 Fearnot says they do some of this already, but again
4 it's a little loosey goosey -- I would like to see
5 specifically what I'll call combination testing.

6 For instance, burst strengths like after
7 a fatigue test or after inflation/deflation, you know,
8 things that were more closely -- maybe mimic the
9 multi-factors that are played in the clinic should be
10 added to this and not just straight testing of a brand
11 new, perfect balloon device.

12 ACTING CHAIRPERSON TRACY: Okay. That is
13 fair. Any other specific comments on this?

14 DR. KRUCOFF: I actually have a process
15 question. As we make these lists, are we implying
16 consensus across the group with the results of the
17 answers to each of these questions or are we going to
18 come back to whatever we agree to here and vote?

19 MR. DILLARD: Jim Dillard. What these
20 three questions specifically, since they seem to be
21 the ones that we struggle with the most as you are
22 actually going through the supplemental data sheets --

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1 the attempt was to try to get you to tackle them as
2 individual units and not be confused once you saw them
3 on the data sheets.

4 So that what we can do is apply the
5 conversation you have already had when you are
6 actually formally -- or Dr. Tracy and us are formally
7 filling out what needs to be documented for the
8 reclassification process.

9 So it was really an attempt to not have to
10 redo this when we get there. You will, however, go
11 through it, vote on each individual thing and see
12 whether or not you have consensus on each question.

13 DR. KRUCOFF: Because then I would say at
14 a minimum I think, as another special control, there
15 would need to be a better post-market surveillance
16 capability to ensure that what we are doing with
17 testing and guidance documents, which I think are very
18 problematic in themselves, doesn't translate to
19 hurting people as it comes out beyond. I guess that's
20 a specific control.

21 ACTING CHAIRPERSON TRACY: On the sheet
22 that we have from this morning with special controls,

1 post-market surveillance is listed as a potential type
2 of special control. It's not one that had been
3 previously indicated as being appropriate to put in
4 place, but I do agree that that's clearly appropriate.

5 Just if you want to refer to that sheet
6 from earlier, the other things were performance
7 standards, voluntary standards, post-market
8 surveillance, user information checklist, patient
9 information education guidelines, guidance documents,
10 patient registries, still subject to 510(K) and design
11 controls.

12 Any other of these that we think we need
13 to discuss in more detail?

14 MR. DILLARD: Just one point, that those
15 sheets -- you got those from, actually, the FDA
16 training. Is that correct?

17 ACTING CHAIRPERSON TRACY: Right. That's
18 right.

19 MR. DILLARD: Good.

20 ACTING CHAIRPERSON TRACY: See, you did
21 good. We were listening.

22 DR. LASKEY: With respect to the

1 performance standards, where are we or what -- how
2 much authority do we have to recommend real
3 standardization across the industry? I mean, are we
4 talking about getting all vendors in the same room to
5 adhere to a common set of operating principles, much
6 as they do in NEMA, for example? Is that what we are
7 driving at here? What are we talking about for --

8 MR. DILLARD: Jim Dillard. I don't know
9 exactly. You will probably want to have that
10 discussion with the rest of the panel, but let me see
11 if I can't clarify.

12 The two types of standards that we have
13 are, number one, FDA promulgated performance standards
14 which are something that I think, as you have heard in
15 the training, are rather difficult and generally take
16 many years, because it requires notice and comment and
17 rulemaking from outside the agency.

18 The other type of standard that we
19 generally refer to is a consensus standard, which
20 would generally be developed by either an outside
21 organization like an American Society for Testing and
22 Materials or the International Standardization

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1 Organization, the ISO organization, those types of
2 organizations that generally develop industry-wide
3 consensus standards.

4 If there is one developed, what the agency
5 can do is recognize that as a consensus standard and
6 use that in the overall clearance of medical devices.
7 I don't think, however, this is the right venue
8 necessarily to propose whether or not we need to
9 develop a particular kind of standard, unless you
10 absolutely think it's crucial as a special control.
11 That would be the context that I would put it in here.

12 ACTING CHAIRPERSON TRACY: So in other
13 words, at this point such a thing does not exist with
14 regard to --

15 MR. DILLARD: That's correct.

16 ACTING CHAIRPERSON TRACY: Okay. But what
17 we do wish to see is post-market surveillance, a
18 guidance document that's updated, and labeling that is
19 updated. Any other discussion on this?

20 Okay. Before we move on to the actual
21 filling of the forms, I'd like to open up for public
22 hearing and solicit any additional comments from the

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1 audience. Okay.

2 If not, then I guess we will move on to
3 our supplemental data sheet. Oh, the general form
4 first, which is in your blue packet, the general
5 device classification questionnaire. Each member of
6 the panel will fill in an individual sheet and leave
7 it for pick-up by the FDA here.

8 DR. HARTZ: Could I ask a question? When
9 we fill these sheets out, are we to take into
10 consideration all the comments we just made?

11 MS. MOYNAHAN: When you fill out those
12 sheets, you could fill it out with your own comments.
13 Then what Cindy Tracy is going to be doing is
14 collecting the consensus comments from the group and
15 putting them on one form which we are also going to be
16 repeating up in the overhead.

17 MR. DILLARD: And to make it easier -- Jim
18 Dillard again -- if you believe you have adequately
19 addressed a particular issue, and if you can reach
20 consensus amongst yourselves that what we have already
21 talked about is what our general recommendation would
22 be and just summarize it, the record will certainly

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1 help us and will speak for itself, too, when we go
2 back through it.

3 So it's not absolutely necessary, Dr.
4 Tracy, that you write down every word of everything
5 that you guys have discussed.

6 ACTING CHAIRPERSON TRACY: For a
7 clarification, what is it that we need to vote on? Do
8 we need to vote on the outcome of this?

9 MR. DILLARD: I would suggest going
10 through and trying to fill out the sheet, see if you
11 can't get a vote on the whole entire sheet and, if
12 there are some particular issues where you have not
13 reached consensus, you might want to try to vote on
14 each individual one.

15 ACTING CHAIRPERSON TRACY: Okay. All
16 right then, starting right at the top, the generic
17 type of device that we are talking about is balloon
18 catheters for PTCA, and the classification
19 recommendation -- Mike, I believe you were about to
20 make some recommendations.

21 DR. DOMANSKI: Yes. I move that we
22 recommend that reclassification to Class II be

1 accepted or performed by the FDA.

2 ACTING CHAIRPERSON TRACY: Okay.

3 MR. DILLARD: Jim Dillard. You might want
4 to just hold that, Dr. Domanski, until you actually go
5 through this, see if the process brings you out to the
6 same recommendation, and then I think you can do that.

7 ACTING CHAIRPERSON TRACY: All right. Is
8 the device a life sustaining or life supporting? I
9 think the answer to that would be yes.

10 Is the device for a use which is of
11 substantial importance in preventing impairment of
12 human health? Yes.

13 DR. HARTZ: I'm confused. I thought we
14 were going to do these on our own and then we're going
15 to get a consensus based on everybody's answers.

16 ACTING CHAIRPERSON TRACY: Do you want to
17 take five minutes and fill it in, and then we will --

18 MR. DILLARD: No, no, no. Jim Dillard.
19 Let me see if we can't work out a process here. This
20 is the confusing part. This is the part that's the
21 toughest every time we do this.

22 ACTING CHAIRPERSON TRACY: This is the

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1 part that wasn't covered in training.

2 MR. DILLARD: It doesn't matter. Even
3 when we cover it, we don't get it right.

4 My suggestion would be, just as you are
5 going through this, Dr. Tracy, if it's an obvious
6 answer, then I think you can certainly make a
7 checkmark on it. If it may be a debatable point, you
8 may want to have some discussion before you actually
9 fill it in and then move on.

10 Then if you as an individual person don't
11 agree with that particular assessment in the end, you
12 can certainly make note of it on your own form so that
13 we can enter that into the overall record.

14 ACTING CHAIRPERSON TRACY: Okay. So we
15 are at question number 2: Is the device for a use
16 which is of substantial importance in preventing
17 impairment of human health?

18 My instincts say yes. Is there any debate
19 on that?

20 Number 3: Does the device present a
21 potential unreasonable risk of illness or injury?

22 DR. KRUCOFF: Yes. Potential.

1 ACTING CHAIRPERSON TRACY: Potential
2 unreasonable risk.

3 DR. DOMANSKI: But the important word is
4 unreasonable, and the answer is it's not unreasonable.

5 DR. HARTZ: What if there are more
6 coronary aneurysms?

7 DR. DOMANSKI: Does the device present a
8 potential unreasonable risk of illness or injury?
9 Well, you have the thing well characterized, and we
10 know the answer is no.

11 DR. HARTZ: The answer is yes.

12 DR. KRUCOFF: I think the answer is yes.
13 I mean, it's a potential risk. To me, that's just an
14 alert that we need to pay more attention to it.

15 Jim, what's the answer?

16 ACTING CHAIRPERSON TRACY: That's not very
17 easy.

18 MR. DILLARD; It is not. It's sort of
19 like -- It's kind of like the wording that we asked
20 you to clarify of the particular device. It would be
21 helpful if this is a little more specific, and we
22 always get hung up here.

1 I think the interpretation here is to try
2 to take a look at what is known about the product, and
3 are there things that are unknown that potentially
4 could be unreasonable for the patient population? If
5 we believe that we know about the product, that there
6 are reasonable risks because they are happening every
7 day, I think, like the product is currently used, I
8 think actually the answer to that generally, when we
9 look at it from that perspective, is no.

10 This is a questionnaire, just to clarify,
11 for both classification and reclassification. So that
12 particular question, I think, is much more applicable
13 when you are talking about a product where you really
14 might not know very much when we were originally
15 classifying products 20 or 25 years ago.

16 ACTING CHAIRPERSON TRACY: And
17 unreasonable does not imply that it's a small risk.

18 MR. DILLARD: Correct.

19 ACTING CHAIRPERSON TRACY: The risk may be
20 extremely high. It's just that we are not taking a
21 Foley catheter and putting it in a coronary artery,
22 which would be an unreasonable risk.

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1 MR. DILLARD: Correct.

2 ACTING CHAIRPERSON TRACY: Okay. So with
3 that understanding, I think the answer would be no.

4 DR. CRITTENDEN: I disagree.

5 DR. HARTZ: I just want to clarify one
6 more time. I think the way we are doing this -- This
7 is causing -- Maybe this is the standard way you do
8 this, but this is biasing us all as to what we are
9 going to answer on these questions.

10 MR. DILLARD: Well, let me just, you know,
11 jump to the bottom line, which is it doesn't matter
12 what you answer on this. You are going to go to the
13 next question, and actually, the way classification
14 works, it's irrespective on this one.

15 DR. HARTZ: So we can answer whatever we
16 want, even if the consensus appears to be something
17 else.

18 MR. DILLARD: This one really has very
19 little bearing on actually reclassification.

20 DR. CRITTENDEN; Can I just make a point?
21 Every time I get called to the cath lab as a surgeon
22 and they say I'm not going to do this lesion, Mike,

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1 you need to operate on him, then we are saying yes to
2 this question, because the interventionalist presents
3 that it's unreasonable in this patient to do an
4 angioplasty. I think this is asking that same
5 question.

6 DR. DOMANSKI: I don't think so at all, as
7 a matter of fact. I think what they are asking is:
8 Is there a potential for an unreasonable risk? For
9 instance, the polymer causes cancer. You know, is
10 there a chance that the polymer is going to cause
11 cancer in a lot of people or something?

12 ACTING CHAIRPERSON TRACY: Can we just
13 table the discussion on question number 3 until we
14 move forward to number 4, because I think it doesn't
15 matter in terms of the flow of this form what we put
16 on number 3, if we could just for the moment table
17 that or we'll never get anywhere.

18 DR. KRUCOFF: Number 3 is ad lib.

19 ACTING CHAIRPERSON TRACY: So did you
20 answer yes to any of the above three questions?

21 DR. KRUCOFF: Yes.

22 ACTING CHAIRPERSON TRACY: Yes, we did

1 answer yes. So if yes, then go to item 7.

2 Is there sufficient information to
3 establish special controls to provide reasonable
4 assurance of safety and effectiveness? If yes, check
5 the special control(s) needed to provide such
6 reasonable assurance for Class II.

7 My instinct would be yes.

8 DR. KRUCOFF: Well, I'm willing to
9 acknowledge to everybody, I feel sort of like the
10 outlier here, but I really am very troubled to answer
11 this yes, and I think the answer to this question is
12 no.

13 I think we have far more ignorance than
14 knowledge about the balloon catheters that are already
15 being manufactured. I think this is a moving
16 platform. We are seeing this moving not only in what
17 and how these balloons are manufactured; we are seeing
18 it as a moving target in what kind of coronary
19 anatomy, in the types of patients in whom they are
20 being applied.

21 I think we have a need for a specific
22 control of post-marketing surveillance that does not

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1 exist. I think we have wholly inadequate reporting
2 and appreciation of device failure as it exists now as
3 a Class III device.

4 I think, to consider this adequate to
5 support as knowledgeable special controls for a Class
6 II device is a terrible assumption. I think we open
7 the door to a Pandora's box from the manufacturing
8 side.

9 I don't think there is any clear message
10 to me that we will actually reduce the burden of
11 resource use of FDA if new manufacturers step up.
12 Inspections to evaluate new manufacturers are as or
13 more laborious than the PMA supplements for new
14 balloons to come forward, as it is.

15 So I just don't get it, and I really am
16 very troubled by the whole package here, somehow that
17 we know the clinical outcomes from clinical trials
18 using catheters, none of which in the reports cited
19 are even still on the market today; that we have the
20 ability to keep track of balloons that come and go
21 every six months with changing polymer designs,
22 changing constructions, and can feel confident that we

1 have the specific controls to understand and report
2 and appreciate whether we triple the mortality rate
3 associated with this procedure.

4 We would never be able to detect it with
5 the mechanisms that we have in place. So I am very
6 concerned to answer this particular question.

7 ACTING CHAIRPERSON TRACY: Mike, you were
8 the other lead reviewer on this. Do you share those
9 concerns or do you have a different -- How would you
10 answer number 7?

11 DR. DOMANSKI: Yes. I think it's time to
12 declassify this device. I mean, these things are well
13 characterized. They have been in extensive use. I
14 think to maintain -- Oh, I'm sorry, seven -- six.

15 ACTING CHAIRPERSON TRACY: Number 7.

16 DR. DOMANSKI: Oh, I'm sorry. So I was
17 going to answer those. I would say post-market
18 surveillance. What I said was, in fact, post-market
19 surveillance, device tracking and also testing
20 guidelines were the three that I checked for this.

21 ACTING CHAIRPERSON TRACY: So you would
22 answer that you do believe that there is sufficient

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1 information to establish special controls.

2 DR. DOMANSKI: Oh, yes, absolutely.

3 ACTING CHAIRPERSON TRACY: And those would
4 be the ones that you would specifically recommend.

5 DR. DOMANSKI: Correct.

6 ACTING CHAIRPERSON TRACY: Can I just take
7 the prerogative of asking the rest of the panel
8 members where they would stand on that? Dr. Laskey,
9 question number 7?

10 DR. LASKEY: Yes. Well, i agree with
11 Mitch Krucoff in spirit. I'm not sure we are here to
12 impugn the system as it is, because we are also
13 impugning the Class III approach to life as well. All
14 those things are true.

15 Nevertheless, there is this 20 year
16 experience with these catheters. I think that there
17 is a standardized body of knowledge. There is a track
18 record, a complication rate, and so forth that I'm not
19 sure we are going to improve upon, even if we maintain
20 the rigor of Class III.

21 I think, if we adhere to the spirit and
22 the amendments, hopefully, that we make to

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1 standardization and post-marketing surveillance that
2 I would be in favor of reclassifying these.

3 ACTING CHAIRPERSON TRACY: Dr. Hartz? I'm
4 sorry. Would you have any specific thoughts regarding
5 the particular special controls that you would like to
6 see?

7 DR. LASKEY: Yes. The post-marketing
8 surveillance and certainly the performance standards.
9 If that could be accomplished, I think that would be
10 a quantum leap in the quality assurance of these
11 instruments.

12 ACTING CHAIRPERSON TRACY: Dr. Hartz.

13 DR. HARTZ: Well, I am really, truly on
14 the fence, because I came in here thinking I did not
15 think this classification should be changed. But when
16 you gave us this paper this morning concerning
17 classification, and for Class III it says specifically
18 -- and I was not really very aware of this -- probable
19 benefit to health for a Class III, probable benefit to
20 health outweighs any probable risk of injury or
21 illness.

22 Firstly, now plain old balloon angioplasty

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1 in a small artery, which is what we are talking about,
2 I don't think the probable benefit to health outweighs
3 any probable risk of injury or illness in that
4 setting. I think it's a very -- It's a pretty minor
5 procedure.

6 I really think the reason we are going
7 through this whole process is to just get to stents,
8 and this is just -- I'm not sure of my answer yet.
9 Use of device will provide clinically significant
10 results. I'm still not -- I don't believe the results
11 will be all that clinically significant, because these
12 patients are going to restenose, because these are
13 small arteries with just a plain balloon.

14 So when I look at the definition that FDA
15 gave us, this is not a very dangerous device.

16 MR. DILLARD: I believe you are speaking
17 to, I think, and quoting basically what we consider to
18 be the definitions of safety and effectiveness, I
19 think; and that's generally how we look at them,
20 certainly for PMA approval.

21 I think that these products, at least the
22 products we are talking about that define this

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1 category have actually already been proven to be safe
2 and effective and, therefore, they are actually on the
3 market, which is why they went through the PMA
4 approval process.

5 So it's a little bit out of context for
6 downclassification. It's not the exact identical
7 standard. I think what we are saying is that can that
8 standard be changed from each individual device has to
9 prove that there is just those definitions you talked
10 about, reasonable assurance of safety and
11 effectiveness, to more of a generic category of
12 products where we understand how they perform, and
13 then are there other controls that could adequately
14 control for the risks and the benefit of the product,
15 which I think is really kind of the bottom line of
16 reclassification.

17 So it is a change from saying each
18 individual product has to be proven to be safe and
19 effective to, no, a product can be proven to be
20 substantially equivalent with certain controls in
21 place. That's the philosophical change between what
22 we are doing here.

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1 DR. HARTZ: And in that context, I think
2 if we classify this as II, the most important point,
3 the most important on the list is patient registries,
4 which I recently tried to find data for angioplasty in
5 1996, and ATC had 125,000 angioplasties listed for
6 that year. That's absurd.

7 I mean, there is really no good registry
8 except for Medicare patients. So I think that is the
9 most important way we can get at some of this data.

10 DR. DOMANSKI: I guess, though, the
11 question I have with regard to insisting on a registry
12 is -- and, Jim, perhaps I misunderstand what the
13 process would be, but I would propose that if somebody
14 comes in with just a variation on their standard
15 balloon catheter, marker is in a different place or
16 something, to ask them to do a patient registry for
17 that would be excessive, I think.

18 That's why requiring -- I mean, FDA can
19 always require it if they want to, but I guess I
20 wouldn't make it a generic requirement.

21 MR. DILLARD: I guess maybe one other
22 factor to consider is, if by downclassifying this with

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1 the special controls what we are doing is adding
2 regulatory burden by the fact of adding patient
3 registries and device tracking and post-market
4 surveillance to something that currently doesn't
5 exist, we are not going to have a whole lot of people
6 coming in, based on that recommendation, and saying,
7 hey, I now want it to be downclassified. You just
8 upped.

9 Even though you put it in Class II, you
10 just upped the requirements for what we have to
11 actually do to prove that the product ought to be on
12 the market.

13 DR. DOMANSKI: Well, I'm willing to remove
14 the post-market surveillance, by the way, from my
15 recommendation. Jim, doesn't that make sense?

16 MR. DILLARD: Well, just the reality
17 check. I wanted to put it on the table.

18 DR. DOMANSKI: All right. Well, I'll
19 eliminate that.

20 ACTING CHAIRPERSON TRACY: There currently
21 does exist some post-market surveillance. Is that not
22 correct?

1 MR. DILLARD: In general, we do not have
2 a requirement of post-market surveillance. I think
3 that it is more driven by -- Right now, we do have
4 pre-market clinical information, but depending on what
5 comes out of that pre-market clinical study drives
6 whether or not there needs to be any post-market
7 effort associated with it.

8 Again, what we are talking about here is
9 a standard PTCA catheter with nothing fancy, no drug
10 delivery, no other bells and whistles associated with
11 it here.

12 ACTING CHAIRPERSON TRACY: So I think that
13 is an excellent point, that we don't want to make this
14 more burdensome than a PMA would be. At this point,
15 if there is no post-market surveillance that is
16 mandated nor are there specified performance
17 standards, the only thing that I see concretely that
18 we have are the guidance documents and the labeling.

19 Is that the current standard to which the
20 new applications have been held? I wouldn't think it
21 would be reasonable to make the standard higher than
22 what a new application would require.

1 MR. DILLARD: Jim Dillard. Currently,
2 what there would need to be is, certainly, a look at
3 the guidance document, which we think is very
4 important. I think the labeling is certainly
5 something that has -- we have tried to standardize
6 more and more as time goes on.

7 Then the other, of course, is the
8 requirement in Class III products that there be a
9 demonstration that there is reasonable assurance of
10 safety and effectiveness. We haven't found a very
11 good way for most applications to do that without a
12 product's own clinical dataset to judge whether the
13 product performs to this reasonable assurance of
14 safety and effectiveness.

15 There have been very few, maybe one or two
16 PMAs, that have ever been approved with only
17 literature information, for example. It's rather
18 limited.

19 So it is a standard change from that pre-
20 market clinical experience to something where we
21 understand about the product and we use other means to
22 determine that it is reasonable.

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1 ACTING CHAIRPERSON TRACY: And that really
2 -- If I am understanding you correctly then, the only
3 two reasonable special controls that we would have at
4 our fingertips here would be the guidance document and
5 the labeling, because other than that we would be
6 recreating a new standard for a device that's been
7 around for 20 years.

8 MR. DILLARD: Yes.

9 ACTING CHAIRPERSON TRACY: Okay. Dr. Li.

10 DR. LI: Yes. I guess I have a comment on
11 that. If it's Class III, there is the strong option
12 that the FDA would require a PMA, which has basically
13 some clinical follow-up to it. So with or without a
14 post-market surveillance, the PMA by definition
15 provides the FDA with some clinical information.

16 If you go to Class II and you get rid of
17 any kind of post-market surveillance of any kind, then
18 we will never know how that device performs. There
19 will be no clinical information for that device.

20 So I don't actually see it as being more
21 burdensome, necessarily, because the post-market
22 surveillance could have a time limit. It doesn't have

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1 to be forever, but it seems to me not right that, if
2 we downclassify, that we actually just stop looking at
3 them completely.

4 ACTING CHAIRPERSON TRACY: Is that correct
5 that a product that comes in with a 510(K) we could
6 not ask them to have post-market surveillance? I
7 think it's different to ask for post-market
8 surveillance within an individual product versus some
9 more global registry, which I don't think we can
10 mandate, if the ATC has been trying for years to get
11 a registry going and hasn't been able to.

12 Is it possible still within a 510(K)
13 situation to have some request for post-market
14 surveillance?

15 MR. DILLARD: Jim Dillard. Yes, it is.
16 There are some other regulatory considerations, but I
17 don't know how much detail you want to hear about,
18 about whether or not something is a 510(K) versus a
19 PMA and our ability to use post-market controls.

20 Let me try to sum up by just saying that
21 I think Dr. Li's point is a very good one, I mean just
22 in terms of surveillance in this particular setting,

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1 I think, what we would be talking about would be some
2 report of clinical information about the product and
3 how it's used.

4 I don't know that you all would need to
5 specify anymore than that, but I think, if you believe
6 it is important -- and I'm not trying to guide you or
7 lead you either way, but if you think it's important
8 for the FDA to have some piece of clinical
9 information, whether that is pre-market or post-market
10 and whether or not part of this shift would be from
11 the pre-market kind of data to a post-market
12 surveillance setting and you believe that that would
13 still be important, that would be a reasonable
14 recommendation in a shift where we are going from a
15 III to a II, even though we haven't been doing that,
16 because we are changing from saying there is no pre-
17 market, at least a priori no pre-market clinical data
18 requirement, but now we are shifting that burden
19 somewhat to the post-market arena.

20 That still doesn't, though -- If a little
21 bit different design comes about or we have a question
22 we are unclear about, FDA still could in the pre-

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1 market notification process ask for a pre-market
2 clinical study. That just wouldn't be what we would
3 normally do with a Class II kind of classification.

4 So if that helps --

5 DR. LI: Just as a follow-up on that, I
6 guess my concern again is for the future product where
7 we may not know the consequence of a small -- what we
8 perceive as a small design change or something that
9 should be inconsequential. I mean, biomaterials is
10 littered with devices with inconsequential changes
11 that turned out to be very large clinical changes.

12 So I think, to go to Class II in one sense
13 would be okay, if I had some sense that there was some
14 clinical follow-up, that we didn't do something we
15 didn't know we were doing.

16 ACTING CHAIRPERSON TRACY: That seems to
17 be the consensus of the group -- at least I'm seeing
18 heads nodding -- that we would feel more comfortable
19 if there was some type of post-market report or
20 clinical surveillance, whether you want to call it a
21 post-market surveillance or if there is another more
22 appropriate term, that that would probably be

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1 reassuring for the panel.

2 DR. LASKEY: Let me throw another log on
3 the fire. I don't see how we can do otherwise,
4 frankly. I think that we are all uncomfortable,
5 clearly. We are uncomfortable, because we can't see
6 into the future.

7 Those of us that do this stuff every day
8 know what the limitations of it are, and I think we
9 are expressing this level of concern to the FDA. We
10 are concerned, and we don't know.

11 Now we are trying to be good guys, but I
12 think that the yellow light is clearly flashing.

13 DR. KRUCOFF: Yes. I definitely echo that
14 same sentiment. I mean, we've been involved in
15 developing the guidance and the ASTM. We are huge
16 fans of this. This is a noble effort that has been a
17 lot of blood, sweat and tears to bring as far as it
18 has come.

19 My real comment is that right now I don't
20 think either this guidance or the standardization of
21 testing or any routine, already in place device
22 related failure reporting, etcetera, are sufficient to

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1 protect people who undergo these procedures from the
2 unknowns of these small device modifications that may
3 produce unforeseen effect.

4 That's really the voice of my concern. If
5 this was a year from now when ASTM had a chance to
6 come a half-step further -- I mean, it's close, and
7 that is what makes this such a dilemma. You don't
8 want to feel like we are holding everything back.

9 I think when you really sit down a look at
10 what do we actually use right now as a guidance
11 document that exists relative to this question, what
12 do we use right now as standardized testing as it
13 exists relative to this question, and what do we use
14 for understanding what happens to people after devices
15 through this path are released, that I think we should
16 be conservative.

17 ACTING CHAIRPERSON TRACY: All right. I
18 am going to keep trying to go around the table here in
19 terms of just comments on number 7, whether -- Dr.
20 Hartz, I didn't come down with a yes or a no for you
21 on question 7. I don't know if you are ready to make
22 a comment there or if we can come back to that.

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1 DR. HARTZ: The answer is yes for special
2 controls. I'm not quite certain what --

3 ACTING CHAIRPERSON TRACY: All right. We
4 will move on then. I would say yes with special
5 controls. Dr. Crittenden?

6 DR. CRITTENDEN: Yes, with special
7 controls.

8 ACTING CHAIRPERSON TRACY: Dr. Aziz?

9 DR. AZIZ: Yes.

10 ACTING CHAIRPERSON TRACY: Tony?

11 DR. SIMMONS: Yes.

12 ACTING CHAIRPERSON TRACY: Dr. Li?

13 DR. LI: I guess it would be a highly
14 reluctant yes, with specific special controls.

15 ACTING CHAIRPERSON TRACY: Okay. All
16 right. The particular special controls that we've
17 talked about would be the guidance documents with a
18 close look at that to make sure it is updated, the
19 labeling again with a close look to make sure that it
20 is updated, report of clinical surveillance.

21 Then if we can jump down to question
22 number 8, which is, I think, a thorny one: If a

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1 regulatory performance standard is needed to provide
2 reasonable assurance of the safety and effectiveness
3 of a Class II or III device, identify the priority for
4 establishing such a standard.

5 I would say that --

6 MR. DILLARD: Can I just jump in here? If
7 your answer to number 7 is guidance, labeling and
8 surveillance, the answer to number 8 is "not
9 applicable."

10 ACTING CHAIRPERSON TRACY: Okay. All
11 right, then I guess we have to just be happy or not
12 happy, depending on who we are, with the answer to
13 number 7 being, yes, with the three special controls
14 that we've talked about.

15 DR. LI: Just to make sure, which three
16 are those?

17 ACTING CHAIRPERSON TRACY: Guidance --
18 Updated guidance document, updated labeling document -
19 - I'm not specifying all the individual things people,
20 for example, have said --

21 DR. LI: I understand.

22 ACTING CHAIRPERSON TRACY: -- and some

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1 type of post-market surveillance or report of clinical
2 surveillance.

3 DR. LI: So just for clarification again,
4 in Item 7 testing guidelines is the guidance document?

5 ACTING CHAIRPERSON TRACY: That would be
6 within the guidance document.

7 MR. DILLARD: Just a point of
8 clarification. Jim Dillard. I would check "other"
9 there, and put "guidance document." Testing
10 guidelines can be something different, actually, by
11 definition.

12 ACTING CHAIRPERSON TRACY: But what he was
13 particularly interested in would be encompassed within
14 the guidance document.

15 MR. DILLARD: Under the guidance document,
16 yes, which I would put under "Other."

17 ACTING CHAIRPERSON TRACY: Okay. All
18 right. So then number 8 becomes "Not Applicable."

19 Number 9: "For a device recommended for
20 reclassification into Class II, should the recommended
21 regulatory performance standard -- How is that? I
22 think it's not applicable.

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1 "For a device recommended for
2 reclassification into Class II, should the recommended
3 regulatory performance standard be in place" --

4 MR. DILLARD: "Not Applicable."

5 ACTING CHAIRPERSON TRACY: Not applicable.
6 Okay. Number 10: "For a device recommended for
7 classification/reclassification into Class III" -- not
8 applicable.

9 Okay, Number 11a: "Can there otherwise be
10 reasonable assurance of its safety and effectiveness
11 without restrictions on its sale, distribution or use,
12 because of any potentiality for harmful effect or the
13 collateral measures necessary for the device's use?"

14 MR. DILLARD: Jim Dillard. Do you want the
15 English on that?

16 ACTING CHAIRPERSON TRACY: Could you tell
17 me?

18 MR. DILLARD: Yes. The English on that is
19 do you believe it should be a prescription device.

20 ACTING CHAIRPERSON TRACY: Yes.

21 MR. DILLARD: Okay.

22 ACTING CHAIRPERSON TRACY: That was pretty

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1 easy.

2 MR. DILLARD: So the answer, actually, is
3 "No" to that question.

4 ACTING CHAIRPERSON TRACY: The answer is
5 "No."

6 MR. DILLARD: Yes, because it's can there
7 otherwise be reasonable assurance of its safety and
8 effectiveness. It's no. So then this specifically
9 11b, you need to state to what extent there needs to
10 be the prescription information.

11 ACTING CHAIRPERSON TRACY: Okay.
12 "Identify the needed restriction(s): Only upon the
13 written or oral authorization of a practitioner
14 licensed by law to administer or use the device; use
15 only by persons with specific training or experience
16 in its use" --

17 MR. DILLARD: Clarification here? Jim
18 Dillard. Do you want the clarification first?

19 ACTING CHAIRPERSON TRACY: Yes.

20 MR. DILLARD: This is a hierarchy. So the
21 general what we consider to be prescription device is
22 that first box, and then what you are talking about is

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1 more and more specific restrictions on either who
2 and/or at what facilities this particular kind of
3 product should be needed.

4 So if your answer is that just the
5 standard what we have now, which is your general
6 prescription statement for the use of the product,
7 applies, then all you need to check is the first box.

8 If you think it needs to be more
9 restricted than that, then you need to check
10 subsequent boxes also.

11 DR. KRUCOFF: Specific training.

12 ACTING CHAIRPERSON TRACY: Why do you say
13 that, Mitch? I think that you do need specific
14 training for it, but there are people in the community
15 doing this who may predate the era of specific
16 training.

17 DR. KRUCOFF: Well, I think there are ACC,
18 AHA recommendations right now that make it pretty
19 clear that some degree of training and practice are
20 advisable, and I happen to agree.

21 DR. LASKEY: After 2003, this is a non-
22 issue. You have to have received board certification

1 to do this.

2 ACTING CHAIRPERSON TRACY: But this is
3 2000.

4 MR. LASKEY: I'm just letting you know
5 what is down the pike, and I agree with the current
6 sentiment within the profession. ACC, AHA guidelines
7 are pretty clear, but they will be even clearer in
8 2003. Specific training could include grandfathered
9 in. I mean, I don't think that necessarily means
10 there are operators currently in practice who would be
11 left out.

12 MR. DILLARD: Jim Dillard. Maybe I can do
13 a little bit more here, which is, I guess, how we
14 generally take a look at this, is that unless there is
15 a real specific reason to have special training by the
16 practitioner or only certain facilities for some
17 reason are going to be capable of utilizing the
18 technology, these are pretty restricted types of
19 activities where the FDA generally backs out of that,
20 unless it is absolutely necessary, and lets the
21 practice of medicine designate who should be the
22 appropriate person and/or facility to perform

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1 procedures and utilize the technology.

2 So this is really taking an extra step to
3 say, basically, the FDA needs to step in even more
4 than they currently do, because again these are
5 available technologies, to provide more regulatory
6 oversight and more control, which is going to be
7 really tough on a Class II product. I just need to
8 say that.

9 It's much easier for a Class III product
10 to mandate who actually should be performing the
11 procedure and at what facilities, if you check either
12 one of those boxes.

13 ACTING CHAIRPERSON TRACY: And how is it
14 currently? How would you answer this currently?

15 MR. DILLARD: Currently, it is just the
16 first box that is checked. That is as far as we go,
17 which is saying that you need a prescription
18 statement.

19 ACTING CHAIRPERSON TRACY: First box?

20 DR. HARTZ: I checked two, two boxes.

21 DR. DOMANSKI: Yes, but you know, the
22 difficult is they are not going to do that, because

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1 you are expanding the indications over what is
2 presently in place for more dangerous devices --
3 right? -- I mean, Jim, in effect?

4 MR. DILLARD: I'm not quite sure I
5 understood that.

6 DR. DOMANSKI: One can approve something
7 that is a Class III device without requiring what
8 would be required if you checked one of the other two
9 boxes.

10 MR. DILLARD: Yes. I got it this time.

11 DR. DOMANSKI: So in effect, we are making
12 the standard more rigorous for a device that we are
13 declassifying, because we say it's safer.

14 ACTING CHAIRPERSON TRACY: If we check
15 both boxes.

16 DR. DOMANSKI: Yes, if you check more than
17 one -- more than the top box. I mean, you can do
18 anything you want, but it makes absolutely no sense
19 for the FDA to actually do that.

20 MR. DILLARD: Yes. And actually,
21 honestly, in the Class II arena we don't generally
22 restrict devices beyond prescription use, because that

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1 is really what Part 801 of our labeling regulation
2 gives us authority to do and not go beyond that.

3 So it's only in those cases where you have
4 a specific technology. It's a PMA. The panel and FDA
5 both agree that there needs to be some very specific
6 and rigorous oversight by the agency about who should
7 practice with that particular product is where this
8 really applies.

9 ACTING CHAIRPERSON TRACY: So with that
10 sort of spirit, it seems as though only the first box
11 is appropriate. Does that seem correct? All right.

12 I think at this point we are to take a
13 stab at voting on this, or not?

14 MR. DILLARD: I think I would go ahead and
15 vote on the whole first one. There are two separate
16 documents. So I would go through and vote on this one
17 first, and try to put this one to bed.

18 DR. HARTZ: Could I please ask one
19 question, just before we vote?

20 Why are -- I've faced this dilemma many,
21 many times coming to these meetings. Why is a
22 registry more onerous than post-market surveillance?

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1 I can't -- We really lack registries for a lot of
2 devices and procedures.

3 I mean, I really think that's what we need
4 as clinicians, and for some procedures we voluntarily
5 have registries all over the surgical arena. Why
6 shouldn't that be something that, I mean, we force the
7 cardiology communities to do, the cardiology societies
8 to do that, rather than have FDA do it, because that
9 certainly seems it would make a lot more sense than
10 post-market surveillance.

11 Here we have a device that is very, very
12 safe except there are a couple of unknown things on
13 the horizon such as false aneurysm of the coronary
14 artery. This is a very difficult place to be in, when
15 we know that we can't have the data, and we are not
16 going to get it in five years to know if we did the
17 right thing sitting here today.

18 MR. DILLARD: Let me try to answer a
19 couple of things. I always think of patient
20 registries as actually a very specific subset of one
21 of the types of tools we have available to us for
22 surveillance.

1 So I think of post-market surveillance as
2 really a broader entity, which could include
3 registries, but it could include other types of
4 mechanisms that could be utilized to look at gathering
5 data on a particular product or surveilling the
6 product.

7 Registries, at least the things that we
8 always hear at the agency -- there's a couple of
9 problems with them. Number one is that, if you're
10 really, truly out to answer a question, registries may
11 or may not actually answer it. So depending on what
12 the question is, you have to take a real close look at
13 that particular use of a tool as a registry is to do.

14 Number two is that who is going to manage
15 it? Registries are expensive. There is a cost factor
16 associated with it, and FDA, if we are not really
17 addressing a specific issue in the registry, we really
18 do not have much authority to go out and mandate a
19 registry just for the sake of having a registry.

20 So generally, I think the professional
21 societies and/or a manufacturer decide if that is
22 appropriate and if there is a need for it.

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1 A registry per se, at least the way we
2 have utilized them, is a data gathering mechanism that
3 has been used in support of some indications for use.
4 So it is a more robust data gathering tool than some
5 of the surveillance tools we utilize.

6 So if you are saying here you think you
7 really need a robust data measuring device or tool to
8 utilize, you could certainly say that, and you can say
9 that by way of the record, or you could be more
10 specific and talk about registries.

11 By saying to us, we think we need post-
12 market surveillance, that's giving the agency some
13 flexibility to take a look at either individual
14 manufacturers or the overall product category itself
15 to really look at what is the most appropriate tool to
16 answer the questions we need to answer for a
17 surveillance situation.

18 So all I would say, in short, is that
19 registries are one of the mechanisms for surveillance
20 that can be utilized, but there's limitations to
21 mandating it.

22 ACTING CHAIRPERSON TRACY: Dr. Li?

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1 DR. LI: Yes. Steve Li. Is there a short
2 answer to what is specifically device tracking? Is
3 that just tracking where they go or does that have
4 anything to do with the fate of that device?

5 MR. DILLARD: Tracking, when we generally
6 think about it, we mean tracking to the patient, so we
7 know which patient got which device.

8 DR. LI: So if we really wanted to know,
9 for instance, how many balloons actually ruptured,
10 which one of these methods would get us closest to
11 that number?

12 MR. DILLARD: Surveillance.

13 ACTING CHAIRPERSON TRACY: The report of
14 clinical surveillance.

15 DR. KRUCOFF: Jim -- Krucoff -- can I ask
16 you honestly to continue to expound on what the
17 panel's assumption is by checking the box post-market
18 surveillance, and what the reality of FDA using post-
19 market surveillance as a tool in Class II?

20 What percentage of patients do you think
21 actually would be followed or any kind of clinical
22 follow-up, or would you have the resources or the

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1 time to go out and get -- We are aware of Class III
2 post-market surveillance that has been very difficult
3 to achieve and even more difficult to achieve at any
4 enforceable level.

5 Other than the palliative conscience part
6 of checking that box on this form, can you tell us as
7 a committee what you really think post-market
8 surveillance recommendation from this panel would
9 translate to, if this is a Class II device?

10 MR. DILLARD: Let me give the reality of
11 pre-market as it currently stands today. Maybe that
12 will help identify what post-market might be
13 reasonable.

14 Pre-market, currently, I would say that
15 the -- certainly not the standard, but the last couple
16 of PMAs that have come through have been 150 patients
17 open-label looking at basically the performance of
18 that particular PTCA catheter.

19 To have anything more than that --

20 DR. KRUCOFF: That's for a supplement?

21 MR. DILLARD: That's for an original PMA,
22 original PMA of a standard balloon like this.

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1 Supplement may not even need any clinical data.

2 DR. KRUCOFF: It may just be bench.

3 MR. DILLARD: Maybe bench data. So I
4 think, if the reality here was to try to answer
5 anything more than what we otherwise would answer with
6 150 pre-market patients in a post-market period, again
7 I think the burden shifts dramatically from what we
8 are trying to do in this.

9 ACTING CHAIRPERSON TRACY: Is the post-
10 market surveillance, as we have been talking about it,
11 this report of clinical surveillance -- is that true
12 post-market surveillance or is that "other"?

13 MR. DILLARD: I think we have always
14 interpreted checking the post-market surveillance box
15 enough to be broad enough that we have room to work
16 with the manufacturer.

17 ACTING CHAIRPERSON TRACY: Okay. If there
18 is no more discussion on that, I would like to try to
19 vote by blocks here on these questions. I will take
20 a couple of easy ones first.

21 Question 1 and 2: Is the device life
22 sustaining or supporting? The answer that seemed to

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1 have consensus is yes. Is the device for use which is
2 of substantial importance in preventing impairment of
3 human health? The answer that we came up with was
4 yes.

5 How do we do this?

6 MS. MOYNAHAN: Are we polling individual
7 members at this point or are you just getting the
8 consensus?

9 MR. DILLARD: Jim Dillard. I think you
10 actually read number 2, didn't you?

11 ACTING CHAIRPERSON TRACY: Yes. I want to
12 do one and two together. My intent was to get the
13 actual vote, because I think we've gotten consensus so
14 far.

15 MR. DILLARD: Great. Great. Perfect.

16 ACTING CHAIRPERSON TRACY: So all in favor
17 of numbers one and two being answered as yes? It
18 looks unanimous. No opposition there.

19 Question number 3: Does the device
20 present a potential unreasonable risk of illness or
21 injury? My answer would be no, and I will take votes
22 for no as the answer to that, remembering that

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1 unreasonable means does not imply that it is low risk.
2 It means that it is anticipated risk. Okay.

3 MS. MOYNAHAN: So was that unanimous?

4 ACTING CHAIRPERSON TRACY: No. Number 3,
5 we are now voting no. The people who are voting no
6 for number 3 are now raising their hands.

7 MS. MOYNAHAN: That's four no.

8 ACTING CHAIRPERSON TRACY: And those who
9 say yes?

10 MS. MOYNAHAN: That's five, yes.

11 ACTING CHAIRPERSON TRACY: Okay.
12 Regardless, the answer to number 4 has to be yes,
13 which brings us down to number 7: Is there sufficient
14 information to establish special controls to provide
15 reasonable assurance of safety and effectiveness? If
16 yes, check the special controls needed to provide such
17 reasonable assurance for Class II.

18 We have checked post-market surveillance
19 and "other," and "other" is guidance documents with
20 all the provisos stated previously, and labeling. So
21 there's three things that we are recommending as
22 special controls.

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1 Now all those who would answer yes to this
2 question with those particular special controls?

3 DR. HARTZ: List those three again.

4 ACTING CHAIRPERSON TRACY: Post-market
5 surveillance to be sort of hammered out --

6 DR. DOMANSKI: I thought we did away with
7 post-market surveillance.

8 ACTING CHAIRPERSON TRACY: No, we did not.
9 We said that it would be hammered out by the FDA in
10 terms of what type of clinical surveillance that that
11 would imply, not to make it more burdensome than a new
12 PMA. The other two special controls were the guidance
13 document that would need to be updated with the
14 particulars of testing and so on, and an updated
15 version of labeling. Those were the three special
16 controls that we had been discussing.

17 DR. LASKEY: The latter two are mentioned
18 throughout the petition as though it is assumed that
19 is going to happen anyway. Do we need to then confer
20 legitimacy in this manner? Isn't this going to --
21 It's underway or it's halfway done or you're almost
22 done?

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1 ACTING CHAIRPERSON TRACY: I think we are
2 saying that it has to be done. If our answer is going
3 to be yes, I think we are saying that it has to be
4 done.

5 MR. DILLARD: Jim Dillard. I think the
6 short answer to your question is that, yes, we will do
7 this, irrespective.

8 DR. LASKEY: And what happened to
9 performance standards? Did that not make the cut?

10 ACTING CHAIRPERSON TRACY: I'm sorry?

11 DR. LASKEY: What happened to those who
12 wanted to check performance standards?

13 ACTING CHAIRPERSON TRACY: How about if we
14 just take 7 as yes or no. Let's just do the yes or no
15 part first. All right, seven yes?

16 MS. MOYNAHAN: Seven yes.

17 ACTING CHAIRPERSON TRACY: Seven, no?

18 MS. MOYNAHAN: Just one.

19 ACTING CHAIRPERSON TRACY: Post-market
20 surveillance, those that would like post-market
21 surveillance? If you are in favor of having post-
22 market surveillance?

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1 MS. MOYNAHAN: Five in favor.

2 DR. HARTZ: Wait. I'm so confused.

3 ACTING CHAIRPERSON TRACY: We just have
4 indicated that we do think that there is sufficient
5 information to establish special controls. Now we are
6 going to examine the specific special controls.

7 I thought that earlier we had a consensus
8 on it, but I think that there is some -- there may be
9 some people who would like to express a view, for
10 example, that performance standards should be
11 established. So we will take each of these individual
12 special controls at this point and vote individually
13 on them or indicate your preference on them, if that
14 is okay.

15 MS. MOYNAHAN: We only need to capture the
16 yeses of it on this question.

17 ACTING CHAIRPERSON TRACY: All right. I
18 think then, if we don't need to vote on that, you have
19 a sense that there is consensus on at least those
20 three. There's still some concern.

21 MR. DILLARD: There isn't consensus, but
22 I think this is the opportunity for people to make

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1 their own -- I mean, if you are with the consensus,
2 you can check post-market surveillance, and under
3 "other," you can put guidance and labeling.

4 If there are other as individual special
5 controls that you would recommend, I would say that is
6 what you can check individually and put down on the
7 particular sheet.

8 ACTING CHAIRPERSON TRACY: At this point
9 we have simply voted for yes.

10 MR. DILLARD: At this point, yes.
11 Correct.

12 ACTING CHAIRPERSON TRACY: By definition
13 then, question number 8 becomes not applicable.
14 Question 9 becomes not applicable. Question 10
15 becomes not applicable.

16 Question 11a with the translation became
17 no. I don't think that is necessarily something to
18 vote on, is it? I don't think so. And 11b -- let us
19 go ahead and vote on that: Identify the needed
20 restrictions.

21 Let me just say, is there anymore
22 discussion on that or is there a consensus that we are

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1 going to check the top box, "Only upon the written or
2 oral authorization of a practitioner licensed by law"?

3 DR. HARTZ: I'm not in that consensus,
4 because I can't even imagine that we could say that
5 this device should not be used by persons with
6 specific training and experience in its use.

7 ACTING CHAIRPERSON TRACY: So that
8 becomes, I think, a minority opinion that would be
9 stated in your filling in of the document.

10 Then we will move along to the
11 supplemental data sheet.

12 MS. MOYNAHAN: Jim, do we have to go back
13 to the classification recommendation at all or is that
14 implied by where they went?

15 MR. DILLARD: Yes. Then I think you just
16 need to fill yours in, Dr. Tracy, about what that
17 means, which is I think, if you believe that there is
18 sufficient information to establish special controls,
19 then the classification recommendation would be for
20 Class II.

21 ACTING CHAIRPERSON TRACY: Right. Okay.

22 Okay, then supplemental data sheet. I

1 think here let's just try to summarize the day's
2 discussion. We are still talking about the PTCA
3 balloon catheter. What is the answer to number 3?
4 It's not an implant. These are tricky questions.

5 MR. DILLARD: Actually, in this case we
6 have two definitions of implant. We have a short term
7 and long term definition of implant. It is either
8 greater than or less than 30 days. This one certainly
9 is not greater than a 30 day implant.

10 I would say that this -- That's a good
11 question. I would consider this to be a short term
12 implant.

13 ACTING CHAIRPERSON TRACY: So the answer
14 is yes.

15 MR. DILLARD: Yes.

16 ACTING CHAIRPERSON TRACY: Okay. All
17 right, number 4: Indications for use prescribed,
18 recommended or suggested in the device's labeling that
19 were considered by the advisory panel.

20 MS. MOYNAHAN: That would be the
21 recommended wording, I think.

22 DR. LI: Madam Chairman, can I request a

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1 five-minute break? Three minutes?

2 ACTING CHAIRPERSON TRACY: Okay, five-
3 minute break.

4 DR. LI: Thank you.

5 (Whereupon, the foregoing matter went off
6 the record at 3:58 p.m. and went back on the record at
7 4:08 p.m.)

8 ACTING CHAIRPERSON TRACY: Okay. Our
9 seven-minute five-minute break is now over, and we are
10 going to resume with attempting to fill in the
11 supplemental data sheet, and we are still talking
12 about the generic type of device as the balloon PTCA,
13 and we have decided it is a device of implant.

14 Question number 4: Indications for use
15 prescribed, recommended or suggested in the device's
16 labeling that were considered the advisory, and I
17 think the FDA has something they want to put up for
18 that.

19 This is the current indication: Intended
20 for balloon dilatation of a hemodynamically
21 significant coronary artery or bypass graft stenosis
22 in patients evidencing coronary ischemia for the

1 purpose of improving myocardial perfusion.

2 MR. DILLARD: Jim Dillard. And I think we
3 have got one other comment that we want to make based
4 on the sponsor's presentation today, and I would like
5 to call Chris Sloan up, because I think we want to
6 talk about the two other pieces of the indications for
7 use that the sponsor put forward.

8 MR. SLOAN: In addition to the indication
9 posted on the screen, the sponsor has posted two other
10 indications that weren't in the petition but were
11 included in their presentation.

12 The second one would be: Balloon
13 dilatation of a coronary artery occlusion for the
14 purpose of restoring coronary flow in patients with
15 ST-segment elevation, myocardial infarction.

16 I believe there is one sponsor which
17 currently has that indication in their approved
18 labeling.

19 The second -- well, the third indication
20 in total, an additional one that the sponsor proposed
21 was: Balloon dilatation of a stent after
22 implantation.

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1 That indication is subtly different from
2 the approved indication that several manufacturers
3 have, which is for the post-stent deployment
4 indication -- post-deployment stent expansion
5 indication.

6 So if the stent needs to be tacked up to
7 make it uniformly expand in the vessel, sponsors do
8 have that indication which has been obtained based on
9 bench studies and, in one case, a clinical study has
10 been performed.

11 I think the distinction that needs to be
12 made based on this last proposed indication is that
13 balloon dilatation of a stent after implantation could
14 imply treatment of an in-stent restenosis with a
15 balloon, and we need to have -- if the panel would
16 please clarify if that is on the table at this point
17 and just have some discussion along those lines.

18 ACTING CHAIRPERSON TRACY: Are there any
19 devices that are currently requesting approval
20 specifically for dilatation of in-stent restenosis
21 that do not include brachytherapy or other types of
22 therapy? Are there any balloons that are just going

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1 for approval for that?

2 MR. SLOAN: No.

3 ACTING CHAIRPERSON TRACY: No.

4 DR. HARTZ: So which indication are we
5 talking about? Are we talking about acute or in-stent
6 stenosis?

7 MR. SLOAN: The three indications on the
8 table --

9 DR. HARTZ: The first and the second, I
10 think I'm pretty clear, but the last one that you
11 mentioned, what is that?

12 MR. SLOAN: The last one, which is
13 currently approved, is for an acute situation. So you
14 have just deployed a stent, and you take either the
15 stent delivery balloon, which has just delivered the
16 stent, or another angioplasty catheter and post-dilate
17 the stent to get complete opposition of the stent
18 along the vessel wall.

19 So it's just an acute procedure. It would
20 not be after some time that the stent is implanted to
21 treat some type of in-stent restenosis.

22 DR. KRUCOFF: Can I just ask a procedural

1 question, Jim? If we list multiple indications for a
2 510(K) sort of process, is FDA still in a position to
3 narrow that field for any given product?

4 As an example, if someone comes through
5 with what I will crudely call a medium compliant sort
6 of balloon where we are characteristically -- or
7 something with a rated burst at eight or ten
8 atmospheres, and we characteristically go to 14 or 15
9 atmospheres to post-deploy a stent, are you all in a
10 position, if we list one indication with multiple
11 components to it, to sort out which the "yes" and
12 which the "no" would be?

13 MR. DILLARD: Well, let me talk a little
14 bit to all three of these, because I think there is a
15 difference potentially between what you currently see
16 up here, which was the original indication for use,
17 versus what I would consider the two other indications
18 here where not all manufacturers have broadly
19 petitioned us through an application to actually ask
20 for those indications.

21 A couple of things here: If this is the
22 indication that we currently are looking at and decide

1 to reclassify this particular indication, the current
2 510(K) process allows for people to come in and submit
3 an application to the agency with other supporting
4 data to try to get expansions of indications for use.
5 That happens in the PMA process, just like that does
6 in the 510(K) process.

7 If you actually include the other two
8 indications as potential indications under this
9 reclassification petition, what you are suggesting is
10 that the data is widely available in those areas, that
11 it can be broadly supported across anybody who would
12 come in and petition us or submit an application under
13 510(K) to get that as a clearance.

14 Those indications which are currently here
15 are indications that we would say, given the way we
16 define the device, no additional clinical information
17 would generally be necessary for those kinds of
18 technologies.

19 So it does have a clear difference in
20 meaning, whether you want to include them or exclude
21 them, as to how broadly we would look at that.

22 ACTING CHAIRPERSON TRACY: I think one

1 thing that seems to have come through clearly to me in
2 the discussion today is that we do not have data for
3 in-stent restenosis. I think that might be an area
4 that I would have some reservations about including
5 that in the indication. However, the other two are,
6 I would think, fairly generic for angioplasty balloon
7 catheter for the indication as stated there, and also
8 for the ST-segment elevation or acute MI seem to
9 relatively generic.

10 I think the tack-up of stent during stent
11 placement is probably a fairly generic thing. Is that
12 -- Do the angioplasty people agree with that? No?
13 Yes?

14 DR. LI: Just as a clarification, for the
15 retacking of the stent, that includes putting in a
16 brand new balloon to do that or you just --

17 ACTING CHAIRPERSON TRACY: Yes. Yes.

18 DR. LI: I guess my only issue there is
19 there is no in vitro testing that indicates how that
20 balloon is going to perform in combination with a
21 stent, given that there are many different balloons
22 and many different stents. There is no information

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1 whatsoever.

2 DR. HARTZ: These are now very relevant
3 clinical situations where they deployed the stent, and
4 the stent still is not tacked up.

5 DR. LI: I understand.

6 DR. HARTZ: You just do whatever you can,
7 and we're just talking about using this particular
8 balloon. Same thing with ST changes. For CSE changes
9 you got to treat them.

10 DR. LI: I understand that issue, and I'm
11 not saying you shouldn't do it. I'm saying that, if
12 you are going to do it, you are going to have to roll
13 in several -- I would rather see you roll in several
14 in vitro tests that, when you do it, you don't use the
15 wrong design or the wrong balloon manufacturer in
16 combination with some stent.

17 MR. SLOAN: I can address Dr. Li's
18 comment. We have acknowledged that our guidance
19 document is a living document, but not as living as we
20 hope it to be. We do have additional requirements if
21 a sponsor is pursuing a post-appointment stent
22 expansion indication.

1 We do require that the sponsor do balloon
2 fatigue and rated burst pressure testing within
3 representative type of stents to get that particular
4 indication. That is not currently mentioned in our
5 guidance, but it is a working policy within our
6 division to ask for that information.

7 ACTING CHAIRPERSON TRACY: So the only
8 question would be whether we sort of globally -- This
9 is where the guidance document really would need to be
10 very carefully evaluated and updated. Do we accept
11 that sort of global pass-through or do we still
12 require that as a -- suggest that as a separate issue?

13 DR. LI: I have a comment on that. I am
14 already uncomfortable with the loosey-goosiness of
15 actually what is written in front of me. I am even
16 more apprehensive about -- I know they are working
17 hard on these, but to approve -- kind of blanket
18 approve a guidance or a test that I haven't seen or
19 know anything about would be a stretch for my part.

20 So I think it's good that it is coming,
21 but, certainly, I would like to see what it is and the
22 extent of it before I say that it is safe and

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1 efficacious for a clinician to use.

2 ACTING CHAIRPERSON TRACY: And it is
3 legitimate for us to recommend reclassification for
4 the indication -- first indication without
5 reclassifying it for the other indication that
6 pertains to stent.

7 MR. DILLARD: Yes.

8 ACTING CHAIRPERSON TRACY: How about ST-
9 segment infarct or -- ST-segment elevation or acute
10 myocardial infarction? Do we feel comfortable enough
11 to say that that's globally approved for
12 reclassification for that particular indication?

13 DR. KRUCOFF: Well, I'll just continue my
14 wet blanket voice, I guess. But with respect, I hope,
15 to recognition that the acute MI patient population
16 are the most vulnerable patient population that we
17 treat in the cath lab, and I think wherever and
18 however we open doors to products emerging into the
19 marketplace, they may be a little slower or a little
20 bulkier or have other new features that we don't fully
21 appreciate through human experience, that this is the
22 patient population who, knocking off thrombus rather

1 than dilating it, etcetera, etcetera, are the most
2 vulnerable population we have.

3 With the same sort of conservative tone
4 with the efforts involved in a lot of the evolution of
5 these guidance documents and the evolution of our
6 standards of measuring materials and predicting or,
7 hopefully, narrowing the in vitro to in vivo gap as it
8 exists today, I would wonder or suggest even that
9 maybe this particular indication would be worth
10 deferring from this pass and seeing how
11 reclassification in general in a more elective
12 population goes for balloon products, rather than
13 simply opening the door with that indication.

14 ACTING CHAIRPERSON TRACY: What percentage
15 of current balloons have the acute infarct, ST-segment
16 approval? Is it 80 percent or ten percent?

17 MR. SLOAN: One manufacturer.

18 ACTING CHAIRPERSON TRACY: One?

19 MR. DILLARD: One. Yes.

20 ACTING CHAIRPERSON TRACY: Okay. Renee?

21 DR. HARTZ: Could you explain to us, if
22 you have a patient today and they are having ST

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1 changes or the stent isn't tacked up, and the device
2 you want to use or the only device you have available
3 to you is not approved, do you go out and get consent?
4 What do you do? If there is only one device that is
5 approved currently for this purpose, does every single
6 cath lab have that balloon?

7 DR. KRUCOFF: No. I think we talked about
8 this a little this morning, Renee. I think actually
9 usage frequently involves products off-label.

10 DR. HARTZ: So if you did use this device
11 and it was off-label, would you then later report it,
12 if it was a Class III device?

13 DR. KRUCOFF: Probably not. Again, I
14 think in individual cases -- I think it's one thing to
15 do it systematically, gather data, do research. We
16 talked, again, about them. You need the IRB approval,
17 etcetera.

18 ACTING CHAIRPERSON TRACY: But, you know,
19 the practice of medicine would suggest that acute
20 angioplasty or acute intervention is better than other
21 modalities. So in a way, we are -- You know, this one
22 I feel more comfortable, even though there is only

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1 one. I would have felt better if you had said all of
2 them or most of them have this indication, but I
3 wonder if this is an anomaly of how things have been
4 regulated up until this point, and maybe this is an
5 opportunity to correct this anomaly, since I would say
6 that, if there is only one manufacturer that has that
7 particular approval, then the overwhelming majority of
8 these things must be being done off-label at this
9 point, and that doesn't seem reasonable to put anybody
10 in that position, if it is an indication that has very
11 wide published acceptance to it.

12 So I think it's a pretty acceptable and
13 standardly done thing to do that. Again, we are not
14 changing any of the parameters that go into the
15 initial development of the balloon. We are not saying
16 we're making less good balloons for these purposes.

17 I would favor passing on the first two,
18 the standard and the ST-segment elevation/acute
19 infarct. I do have reservations about the stent as
20 well. I would not want to downregulate that.

21 Can we -- Do we have any type of
22 consensus? I think we all have a sense that we do not

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1 want the stent reclassified, but how about -- and I
2 think we have a consensus that number one would have
3 to be reclassified. The only one that I think at this
4 point is of any question is the ST-segment
5 elevation/infarct. Any consensus on that?

6 Mitch, I know you are the wet blanket
7 here.

8 DR. KRUCOFF: The only other thing I'll
9 mention about a higher -- slightly higher regulatory
10 bar is that it does help us create data. I mean,
11 again not only could you look at the anomaly the other
12 way around, but you could say the only data we
13 actually have about balloon performance and acute MI
14 in a pretty organized fashion came from the fact that
15 to get that indication required work done in humans,
16 and we are opening a door to balloons that come
17 through bench testing, not just idiosyncratically but
18 consistently as an approved indication finding their
19 way into acute infarction arteries.

20 ACTING CHAIRPERSON TRACY: But the reality
21 is that nobody cares right now in the community. They
22 don't care that the device that they are using is not

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1 approved. They are using them, and it seems highly
2 unlikely that a company is going to go back and say I
3 must have this indication when their product is
4 selling very well without the indication.

5 So I mean, the only chance I see at this
6 point in picking up data is on some type of post-
7 market surveillance, which we have already requested,
8 and that could be part of the post-market surveillance
9 that we want.

10 I just don't see us going back and
11 revisiting this issue, since it is clinically
12 acceptable at this point.

13 Dr. Li?

14 DR. LI: I obviously don't know enough
15 about the clinical indication to lend a comment here,
16 but I will say this, though, as a comment. I think
17 there are numerous devices in other areas that are
18 used off-label that have never been approved, and they
19 go on by the thousands or tens of thousands annually.
20 But one of the reasons they don't get the formal
21 approval is nobody has been able to essentially meet
22 the criteria of a valid scientific set of data that

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1 says it's okay. So they kind of let sleeping dogs
2 lie.

3 So if you as a physician think that is the
4 best way to treat the patient, then so be it. Go
5 treat the patient that way. But I think if you
6 blanket say it must be okay because we are all doing
7 it, you know, and there is no data to support one way
8 or the other, then I think that's not a great reason
9 to add it as an indication.

10 ACTING CHAIRPERSON TRACY: I think,
11 though, the practice guidelines, which are pretty well
12 researched guidelines, would support primary
13 intervention for acute infarct. So it is not just
14 based on standard practice. It's based on practice
15 guidelines.

16 DR. LI; No, but this is using a
17 particular device, though, for that procedure. Right?
18 So if you say this is indicated for that, I would take
19 that to mean that any one of these, however many
20 balloons there are, could be used in that application,
21 bar none, and I'm not sure there is any valid
22 scientific evidence.

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1 That might be true. I just don't see any
2 valid scientific evidence that would say unequivocally
3 it meets that criteria.

4 ACTING CHAIRPERSON TRACY: All right.
5 Well, there you have it. Any other comments from the
6 panel?

7 DR. LASKEY: I'm not sure it's worth
8 drawing a line in the sand over this one. There is
9 over the stent issue, but this issue -- 99 percent --
10 I didn't know this either, that the vast majority of
11 balloon catheters are unapproved for acute MI
12 intervention. I didn't know that.

13 So that 99 percent of balloons used for
14 infarcts are unapproved. So be it. It's not worth
15 drawing a line in the sand on this one.

16 DR. CRITTENDEN; So you are suggesting not
17 to have it as an indication?

18 DR. LASKEY: No. To allow it in.

19 DR. CRITTENDEN: To allow it in.

20 ACTING CHAIRPERSON TRACY: I think I would
21 favor allowing it in, because it does help get rid of
22 this crazy dichotomy where 99 percent of what we are

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1 doing is of-label.

2 DR. HARTZ: I would say exactly the same
3 statement for the stent that is not adherent, because
4 the sicker the patient is, the more off-label devices
5 are going to be used. So I would say for these --
6 These are even more potent indications for using
7 whatever balloon you can get. This is just too soft.
8 The other two are very sick patients who need
9 something done. I would say the more devices we
10 approve for that, the better. So I think in surgery,
11 putting it somebody who is dying, you didn't used to
12 call the FDA until after it was in. They knew that.

13 ACTING CHAIRPERSON TRACY: Okay. I think
14 we have a consensus on one and two. Number three,
15 unless there is a swing in the feeling, then we will
16 just go with a minority opinion on that.

17 Number 5, identification of any risks to
18 health presented by device. I think we have covered
19 that this morning with the list that we went through
20 on the initial questions. We will just refer back to
21 that, I think.

22 Number 6, recommended advisory panel

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1 classification and priority: Classification II. I
2 have no clue what priority means.

3 MS. MOYNAHAN: High, medium or low.

4 ACTING CHAIRPERSON TRACY: High, medium or
5 low?

6 MR. DILLARD: Jim Dillard. This is
7 generally for Class III. We need by statute whether
8 it's high, medium or low. But if you would like to
9 give us a recommendation about what you think by way
10 of our resources whether we should put a lot, a medium
11 or not too many resources in trying to do this might
12 be a helpful recommendation from you.

13 ACTING CHAIRPERSON TRACY: Into the
14 reclassification or into the other components of it?

15 MR. DILLARD: Into finishing up the
16 reclassification, because this is by far only part of
17 the process, not the whole, entire process. So --

18 ACTING CHAIRPERSON TRACY: I would think
19 that, given that this has been -- The use of these
20 devices has been in place and stable with the current
21 types of indications and risks, etcetera, that we are
22 discussing here, that we are not facing a critical

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1 issue that needs to be resolved urgently.

2 So I would think that this would fall into
3 the medium to low category. I don't know what low
4 means. If low is five years, that is probably not
5 reasonable, but somewhere not urgently pressing
6 strikes me. Is that fair?

7 DR. CRITTENDEN: Medium.

8 ACTING CHAIRPERSON TRACY: Medium? Medium
9 it is. Okay.

10 "If device is an implant or is life
11 sustaining or life supporting and has been classified
12 in a category other than Class III, explain fully the
13 reasons for the lower classification with supporting
14 documentation and data."

15 I think that is what we have been doing
16 for the last several hours. So I think we will just
17 refer back to the comments from earlier, and we have
18 indicated the special controls that we want to have in
19 place.

20 Number 8, summary of information,
21 including clinical experience or judgment upon which
22 classification recommendation is based: I think all

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1 of the proceedings so far today have been part of this
2 decision making, and there is a fairly extensive list
3 of references that were provided by the manufacturer
4 as well.

5 Number 9, identification of any needed
6 restrictions on the use of the device: We had
7 indicated in 11a of the general device questionnaire
8 that we thought that this was a device that required -
9 - It's actually 11b, I think. Right? 11a? Okay.

10 It is a prescription use device,
11 basically.

12 Okay, question 10, If device is in Class
13 I -- So that is not applicable.

14 Question 11, existing standards applicable
15 to the device, device subassemblies or device
16 materials: There are not specific existing standards.

17 I believe that's it. Vote? All right.
18 We need to vote on this supplemental data sheet. Let
19 me just say what we are voting on. We are voting on
20 the supplemental data sheet, and the majority of it we
21 are just voting on what has already been discussed.

22 The only one, question 4, is where there

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1 is some maybe controversy. I believe that there was
2 consensus, though, that the original indication plus
3 the ST-segment or infarct indication we would advise
4 reclassification from Class III to II, and I believe
5 there is consensus that we are uncomfortable
6 reclassifying it for stents.

7 So we are voting on this, whether we
8 approve the data sheet as filled in at this time. All
9 in favor?

10 MS. MOYNAHAN: Can you raise hands, and I
11 will count. So six in favor. Opposed? And one
12 opposed.

13 DR. HARTZ: Actually, since I have that
14 one difference, I should oppose also, because I have
15 this one --

16 MS. MOYNAHAN: So five in favor, and two
17 opposed, and then we have lost a voting member, Dr.
18 Aziz. He stepped away.

19 DR. HARTZ: There's no place for a
20 signature on this.

21 ACTING CHAIRPERSON TRACY: Actually, you
22 should put your name at least on the bottom of that

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1 sheet or somewhere, so they can identify. If it is
2 not stapled together, then if you could just put your
3 name with that.

4 Then that concludes this session.

5 MR. DILLARD: Thank you very much. I
6 appreciate everybody's help.

7 (Whereupon, the foregoing matter went off
8 the record at 4:34 p.m.)
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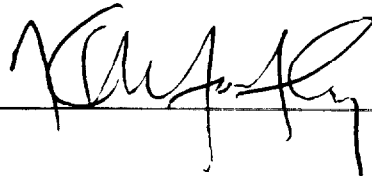
This is to certify that the foregoing transcript in the
matter of: Circulatory System Devices Panel of the
 Medical Devices Advisory Committee

Before: DHHS/FDA/CDRH

Date: December 4, 2000

Place: Gaithersburg, MD

represents the full and complete proceedings of the
aforementioned matter, as reported and reduced to
typewriting.


A handwritten signature in dark ink, appearing to be "K. A. Kelly", is written over a horizontal line.